

# LECKEY®

## Horizon

User Manual





**The Leckey Horizon Stander has been designed to offer the option of Supine and Prone Standing in one whilst providing an unrivalled level of positional support. This manual shows you how you can quickly and easily make use of all of the functions. The instructions on the safety and maintenance of the product will ensure that you will enjoy the use of this product for a long time.**

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## **1 Intended Use**

The Leckey Horizon Stander is for use in prone and supine standing but may also be used for upright standing. The Leckey Horizon Stander is intended for adults and children (aged 4 years+) with disabilities such as cerebral palsy. The maximum user weight limit on the size one Leckey Horizon Stander is 50kg (110lbs), size two is 80kg (176lbs) and size three 100kg (220lbs). Standing can help the normal development of the hips, it will help promote muscle formation, and can help provide psychological well being.

## **2 Declaration of Conformity**

James Leckey Design Ltd. as manufacturer with sole responsibility declares that the Leckey Horizon Stander conforms to the requirements of the 93/42/EEC Guidelines and EN12182 Technical aids for disabled persons. General requirements and test methods.

## **3 Terms of Warranty**

The Warranty applies only when the product is used according to the specified conditions and for the intended purposes, following all manufacturer's recommendations (also see general terms of sales, delivery and payment). A two year warranty (1 year for electrical) is provided on all Leckey manufactured products and components.

## **4 Product History Record**

Your Leckey product is classified as a Class 1 Medical device and as such should only be prescribed, set up or reissued for use by a technically competent person who has been trained in the use of this product. Leckey recommend that a written record is maintained to provide details of all setups, reissue inspections and annual inspections of this product.

## **5 Product Training Record (Parents, Teachers & Carers)**

Your Leckey product is a prescribed Class 1 Medical Device and as such Leckey recommend that parents, teachers and carers using the equipment should be made aware of the following sections of this user manual by a technically competent person:

### **Section 6**

Safety Information

### **Section 10**

Frequent Adjustments for Daily use

### **Section 11**

Cleaning & care information

### **Section 12**

Daily Product Inspection

Leckey recommend that a written record is maintained of all those who have been trained in the correct use of this product.

## 6 Safety information



**6.1 Always read instructions fully before use.**



**6.2 Users should not be left unattended at any time whilst using Leckey equipment.**



**6.3 Only use Leckey approved components with your product. Never modify the product in any way. Failure to follow instructions may put the user or carer at risk and will invalidate the warranty on the product.**



**6.4 If in any doubt to the continued safe use of your product or if any parts should fail, please cease using the product and contact our customer services department or local dealer as soon as possible.**



**6.5 Carry out all positional adjustments and ensure that they are securely fastened before you put the user into this product. Some adjustments may require the use of a tool which is provided with each product. Keep all tools out of reach of children.**



**6.6 When placing the user into the standing frame, for safety reasons, always secure the user's feet and the chest straps first. Then the hip and knee straps should be fastened.**



**6.7 When used in the supine position it is important to ensure the knee pad is fastened securely. Always check the clips are fully engaged.**



**6.8 Although the stander is fitted with casters it is not a mobility device. Always ensure that the castor brakes be locked at all times when the frame is in use, being adjusted or even just stored.**



**6.9 When adjusting the angle of the Leckey Prone/Supine Stander ensure that the user and all parts of the product are well clear of surrounding furnishings to avoid potential collisions.**



**6.10 It is not recommended to adjust the height of the back pad whilst the frame is in use and in vertical position. Other fine positional adjustments may be carried out safely when the user is in the frame. It is important to support all pads when adjusting them while the user is in the product.**



**6.11 Never leave the product on a sloping surface, greater than 5 degrees. Always remember to lock all the castors.**



**6.12 The product contains components which could present a choking hazard to small children. Always check that locking knobs and bolts within the child's reach are tightened and secure at all times.**



**6.13 Leckey products comply with fire safety regulations in accordance with EN12182. However the product contains plastic components and therefore should be kept away from all direct sources of heat including naked flames, cigarettes, electric and gas heaters.**



**6.14 Never place hot items on the Activity Tray as they may damage the plastic.**



**6.15 Clean the product regularly. Do not use abrasive cleaners. Carry out maintenance checks on a regular basis to ensure your product is in good working condition.**



**6.16 The product is designed for indoor use and when not in use should be stored in a dry place that is not subjected to extremes of temperature. The safe operating temperature range of the product is +5 to +40 deg Celsius.**



**6.17 The product has a battery power source. It complies with the requirements of BS EN 60601 Medical electrical equipment – general requirements for safety. Please read and adhere to the guidelines on charging the battery detailed in section 7.**

# How to unpack and assemble

Congratulations on purchasing your Leckey Horizon Stander. Your Leckey Horizon Stander will be boxed on a pallet. You should first cut the straps and remove the outer lid and cardboard sleeve. The tray will be packaged separately and should be removed from the box before trying to move the stander. You can then remove the remaining packaging, unlock the castors and roll the stander off the pallet. Please check that you have all the parts you have ordered. The castors should then be locked into position, facing out from the frame at 45 degrees.

Some of the components will be wrapped in polythene packaging.



**Safety First.**

**Keep polythene bags away from children.**

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## Multi-tool

A number of adjustments will require the use of the multi-tool, which is supplied with each product.

## Charging the battery

Before the product is used for the first time it is recommended to charge the battery fully for at least 12 hours. To charge the battery (a), plug the adaptor into the mains socket, attach the lead to the frame and switch on the mains power. While charging, the charger LED will remain orange and will turn to green when fully charged. When charged switch off mains power, remove the adaptor plug and disconnect the lead from the frame. The battery charge should be topped up each day for approximately one hour.

If the battery is low in power an audible bleep will sound indicating that it needs to be charged. 'Battery low' will also be indicated on both handset and control box (b).

## Setting the Angle

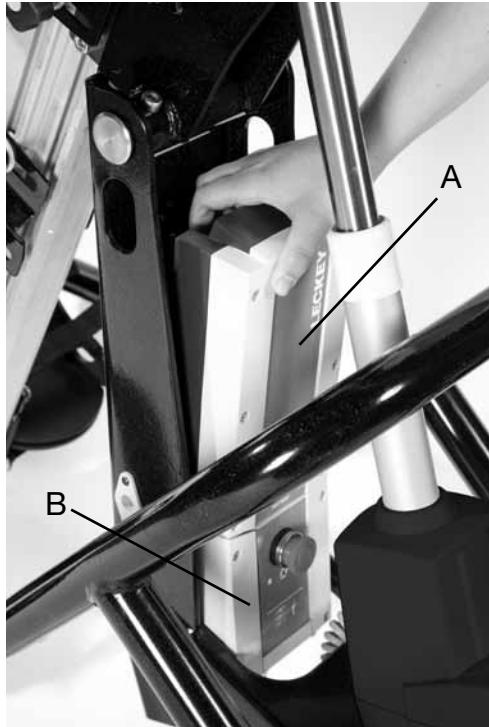
Whether used in supine or prone the frame angle can be easily adjusted with the push button control handset or the control box. Use angle indicator on frame for guidance.

Ensure that the product and user are away from surrounding furnishings to prevent possible collisions when adjusting the angle.



**Safety first**

**Keep polythene bags away from children.**



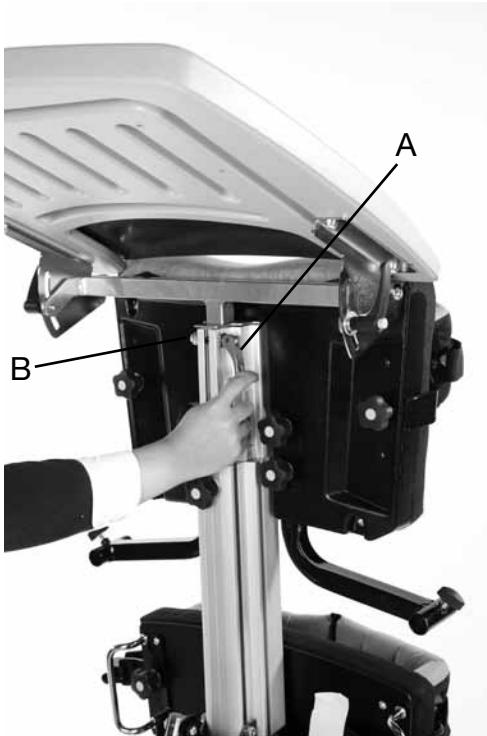
## 7.1 How to attach the tray in prone standing

The tray is attached to and removed from the frame by sliding the square metal tube into the top of the main spine. Before you insert the tube unlock the locking lever (a), insert the tube and relock the lever.

To lock the tray and set its height push the locking lever (a) down until it touches the metal spine. After use the locking lever needs to be fine tuned to ensure secure locking. To do this lift up the lever and turn the nut (b) while holding the lever in a fixed position. Push the lever back down to check if it locks the tube securely. Repeat the process as necessary.



**Always use caution when making this adjustment, as fingers could become trapped in the receiving tube while positioning.**



## 7.2 How to attach the tray in supine standing

The Tray is attached to and removed from the frame by the metal brackets located below the chest pad. To attach the tray slide the metal bars into the receiving tubes to the required depth and secure by tightening the knobs (a) on either side.



## 7.3 How to attach the sandals

Each sandal is attached to the footplate individually with a single fixing bolt. Remove the sandals from their packaging and unscrew the plastic knob and washers. Place the sandal on the footplate locating the fixing bolt through the slot, place the rubber washer on first and then the metal washer. Secure in place with the plastic knob (a).



**Always use caution when making this adjustment, as fingers could become trapped in the slot while positioning.**



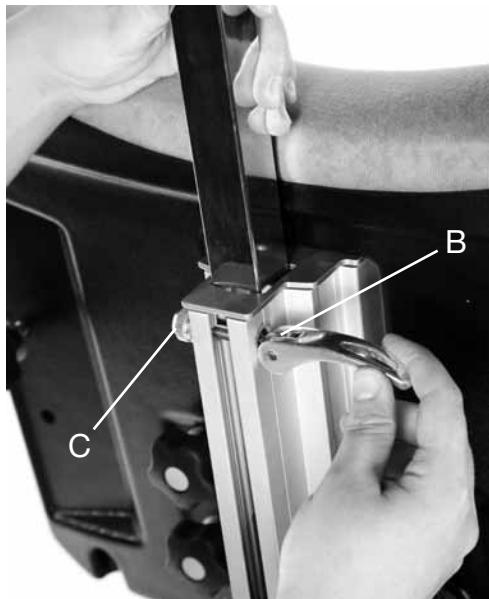
## 7.4 How to attach the headsupport & extended headrest bracket in Supine

To attach and height adjust, slide the square tubing into the top of the central spine on the backrest. To lock the head support push the locking lever down until it touches the metal spine (b). To remove simply reverse this process. The extended headrest, the contoured head support and the Whitmyer Pro-Series range of headsupports can also be attached to the frame as detailed above.

After use locking lever may need to be fine tuned to ensure secure locking. To do this lift up the lever and turn the nut (c) while holding the lever in a fixed position. Push the lever back down to check if it locks the tube securely. Repeat the process as necessary.



**Always use caution when making this adjustment, as fingers could become trapped in the receiving tube while positioning.**



## 7.5 How to attach the headsupport in prone

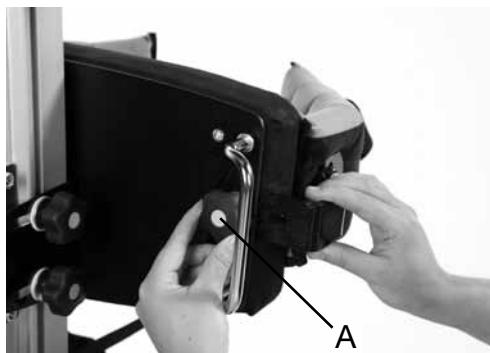
If headsupport is needed in prone standing the Leckey Interface Frame (LIF) can be used with Horizon Stander. The LIF is attached to and removed from the frame by the metal brackets located below the chest pad. To attach, slide the metal bars into the receiving tubes to the required depth and secure by tightening the knobs on either side.

Please refer to the specific user manual on the Leckey Interface Frame to safely position the frame and its accessories.

This frame will also accommodate the Whitmyer pro-series range of headsupports.

## 7.6 How to attach Flexible Guides

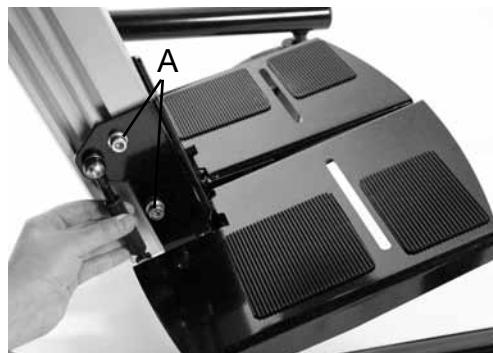
To attach the flexible guides, loosen the plastic knob (a) at the back of the pad and slide the metal bracket into the slot. Then when set to the desired height retighten the plastic knob. Repeat on the other side.



## 7.7 How to attach and remove basic / flip-away / 3D footplates

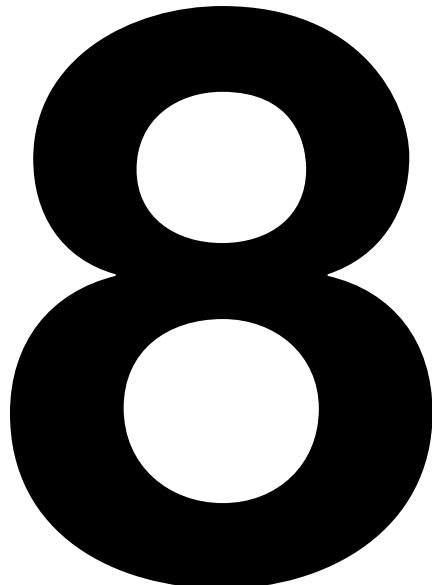
To remove the footplate loosen the bolts which attach the footplate to the bottom of the spine (a). Slide the footplate downwards and remove.

To attach a footplate, loosen the bolts at either side of the footplate (a) and slide upwards on to spine. Ensure the slider plate is firmly inserted into groove in spine. Tighten the bolts once the footplate is in the required position.



# Clinical setup for postural management

The clinical setup of the product should be completed by a technically and clinically competent person who has been trained in the use of the product. Leckey recommend a written record is maintained of all clinical setups for this product.



## 8.1 Adjusting the Chest Pad

For prone standing you should firstly measure the distance from the users feet to just under their arms and for supine you should measure to the top of the shoulder. This is best done were practical in a lying position on a mat. The height between the top of the chest pad or top and the sandals should be set to the equivalent of this distance.

To position the pad loosen the knob at the back of the spine (a) and slide the pad to the required position and retighten securely. Always support the pad before loosening the knob to prevent the pad slipping unexpectedly.

The height of the chest pad should not be adjusted when the stander is in an upright position and in use. Maximum adjustment of the chest pad is 40 cm/16 inches as displayed on the calibration strip at the side of the spine.



**Never adjust the height of the chest pad when the user is in the product as the user's weight may collapse the height of the frame causing injury to the user or carer.**



## 8.2 Adjusting the Hip Pad

The hip pad can be height, depth and angle adjusted for optimum pelvic position. The height of the pad is set to the equivalent distance between the user's pelvis and their feet. To adjust the hip pad loosen the four knobs (a) on either side of the central spine at the back of the pad and slide the pad into the required position. Once the required position is obtained the knobs should be re-tightened securely.



**Always check the pads are secure before placing the user in the product.**

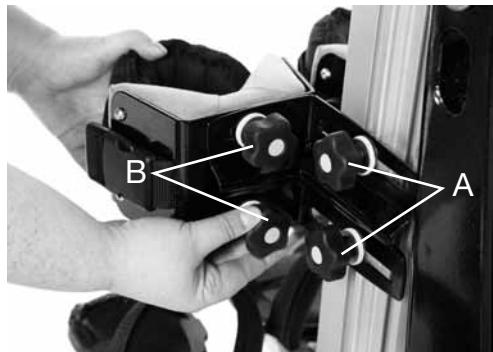
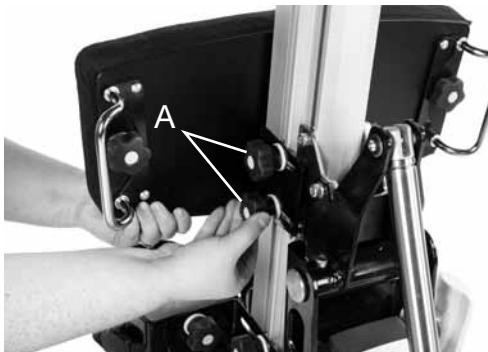
## 8.3 Adjusting the Knee Supports

The height and depth of the knee supports can be positioned independently by adjusting the mounting plate. To adjust the plate loosen the two knobs (a) and slide the plate and knee support to the required position and then retighten the knobs securely. Repeat the process for the other plate.

To alter the width of the knee supports and also if required achieve some rotation loosen the knobs (b) and slide the pad to the required position and then retighten the knobs.

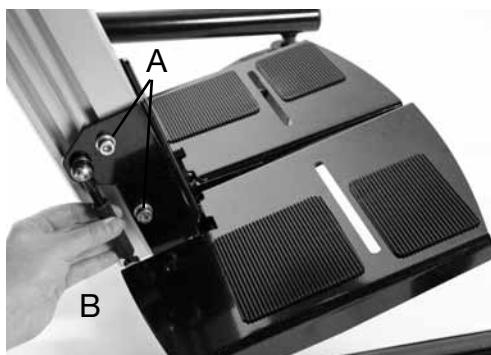


**Always use caution when making this adjustment, as fingers could become trapped in the slot while positioning.**



## 8.4 Adjusting the Standard Footplates

The Leckey Horizon Stander footplates are split to allow independent height and angle adjustment for exact positioning of both feet. To adjust the footplate height first loosen the allen bolts (a) and then slide the footplate to the required position and retighten securely. To alter the angle of the footplate to accommodate plantarflexion or dorsiflexion simply rotate the coupling cylinder clockwise or anti clockwise respectively (b).



## 8.5 Adjusting the Flip-up Footplates

The footplate is hinged at the front which allows the sandals to be adjusted more easily and can facilitate transfer from a seating position to prone standing. To avoid any possible finger nip issues lift the footplate at the notched area.



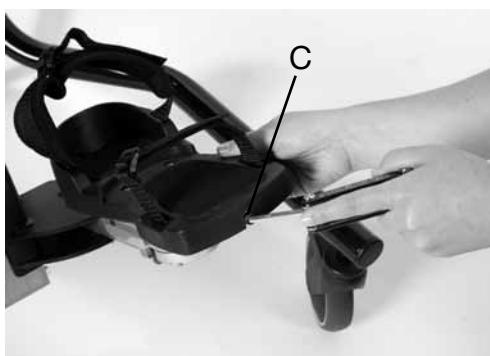
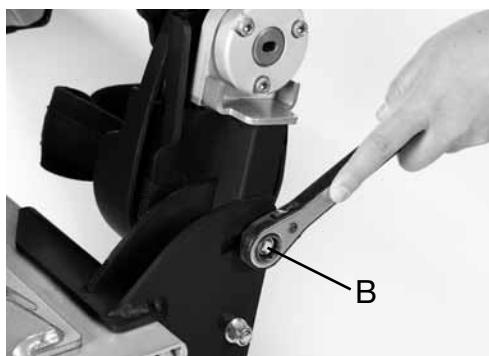
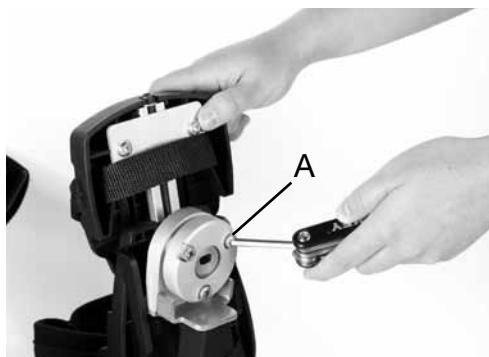
**Use caution when lifting and lowering the footplate as fingers could become trapped.**



## 8.6 Adjusting the 3D Footplates

Loosen the three screws at the bottom of the ball and socket joint (a). Swivel and adjust footplate to required position and tighten screws.

The footplate can also be adjusted to accomodate leg position by loosening screw (b) then you can slide left, right, backwards and forwards. To move footplate up and down, loosen the screw at the front of the footplate, slide into position and retighten (c).

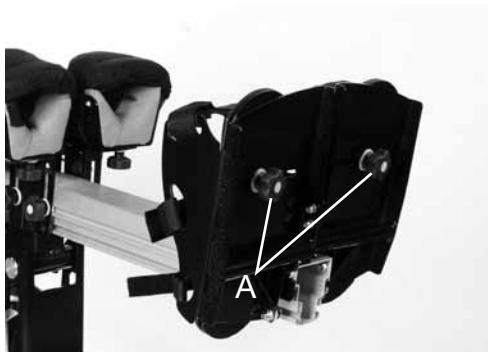


## 8.7 Positioning the Sandals

Each sandal is attached to the individual footplate with a single fixing bolt. The footplate is covered with a rubber pad to ensure the sandals do not slide when secured. If you wish to rotate the sandal laterally, simply loosen the knob, place in the required position and then re-tighten the knob securely (a).



**Use caution when lifting and lowering the footplate as fingers could become trapped.**

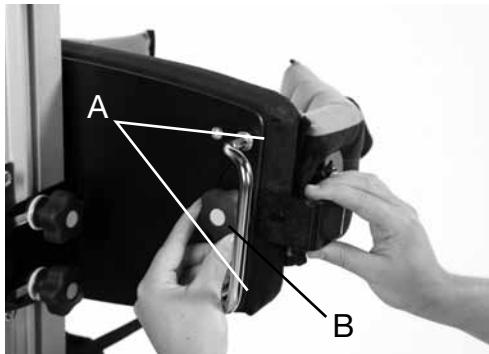


## 8.8 Flexible Lateral Support Adjustment

The flexible lateral supports can be adjusted in height and width. To adjust the width, loosen the knob (b) on the back of the chest pad. Then adjust the lateral support to the required position and finally re-tighten the knob. To change the height, loosen as before, slide the bracket out fully and insert in an alternative slot (a), replace the knob and tighten securely. As the lateral brackets are staggered in height, additional height range can be achieved by swapping the lateral from the left to the right side. The flexible lateral supports are secured around the user by tightening the safety strap (c) into position. Fasten the safety strap immediately.



**Check the laterals are secure before placing the user in the product. As if they are loose the user may be at risk of slipping into a position they cannot not recover from and could restrict their breathing.**

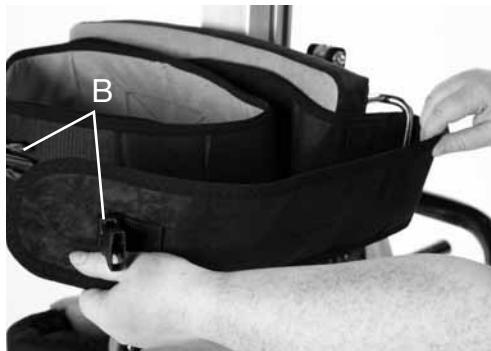


## 8.9 Positioning & attaching the Pelvic Band

There is a different pelvic band for prone and supine standing. The pelvic band should be attached to the user first, if practical on a mat. The pelvic straps are attached around the user's pelvis and then when the user is secured into the frame (by their feet and chest) the longer straps are slipped through the belt bars (a) on the back of the hip pad and secured firmly around the user. The additional strap with the plastic buckle and clip (b) should be secured to ensure the straps are not accidentally unfastened. To ensure that you can easily identify the strap that goes around the user and the one that attaches to the hip pad, a Leckey label is sewn onto the one that attaches to the hip pad.



**Always make sure the safety buckle is engaged so the Velcro straps are not accidentally undone which could allow the user to slide out of the product and cause serious injury.**



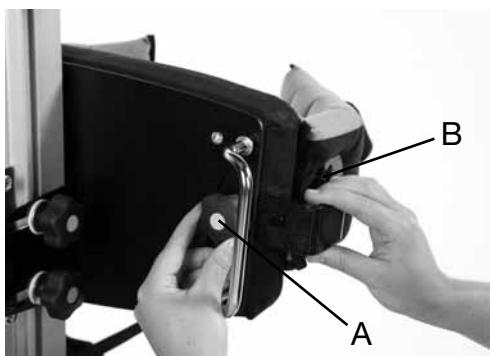
## 8.10 Positioning Flexible Hip Laterals

The Flexible Laterals can be used as an alternative to the pelvic band. The Laterals can be individually adjusted in width as well as in height. To adjust the width loosen the knob (a) on the back of the hip pad, then adjust the flexible laterals to the required position and finally re-tighten the knobs.

For the height positioning of the Laterals loosen the allen bolt (b), position the Lateral as required and then re-tighten the bolts securely. The flexible Laterals supports are secured around the user by tightening the safety strap into position. Fasten the safety strap immediately.



**Check the laterals are secure before placing the user in the product. As if they are loose the user may be at risk of slipping out of the product and could cause them serious injury.**

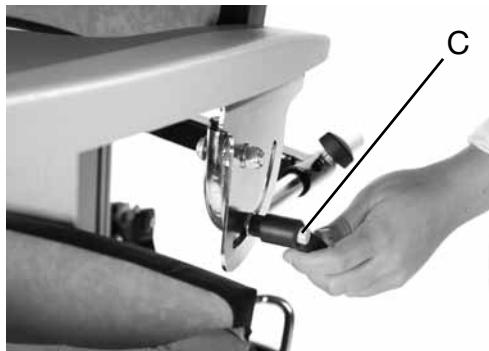
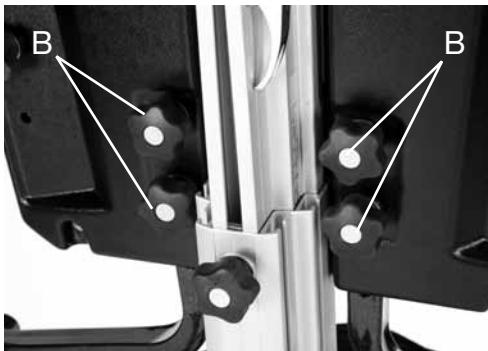


## 8.11 Activity Tray Adjustment – Supine

The Tray is attached to and removed from the frame by the metal brackets located below the chest pad. To attach the tray slide the metal bars into the receiving tubes to the required depth and secure by tightening the knobs (a) on either side. There are limit poppers in the end of the tray tubes to show the maximum depth adjustment allowed. These may need to be depressed to remove the tray.

To adjust the height loosen the four knobs (b), set the tray to the required position and then retighten the knobs securely.

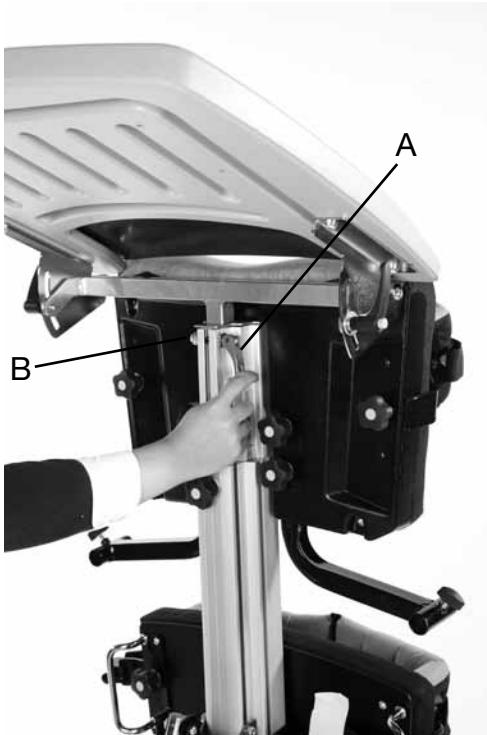
The tray angle can be adjusted by loosening the plastic handle (c) on either side of the tray, set the tray to the required angle and tighten the plastic handles again securely.



## 8.12 Activity Tray Adjustment – Prone

To lock the tray and set its height push the locking lever (a) down until it touches the metal spine. After use this may need to be fine tuned to ensure secure locking. To do this lift up the lever and turn the nut (b) while holding the lever in a fixed position. Push the lever back down to check if it locks the tube securely. Repeat the process as necessary.

The tray angle can be adjusted by loosening the ratchet handle on either side of the tray, set the tray to the required angle and tighten the plastic handles again securely.



**Always use caution when making this adjustment, as fingers could become trapped in the slot while positioning.**



**Always use caution when inserting the tray to make sure the child's hands or arms do not become trapped.**



**Do not place hot objects on the tray, not greater than 40 degrees Celsius.**



**Please note that the tray is for the use of the user only. Do not lean or place heavy objects on the tray, not greater than 8kgs (17.6lbs).**



**Never use the tray to steer or push the stander.**



**Do not height adjust the headsupport beyond the hazard strip at the end of the tube.**



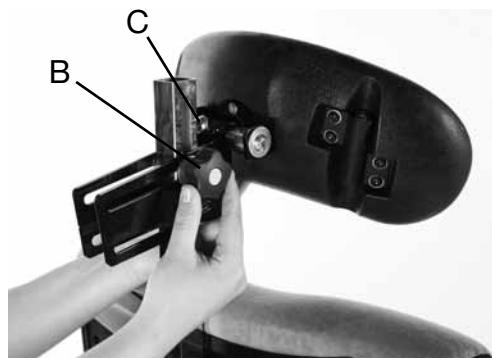
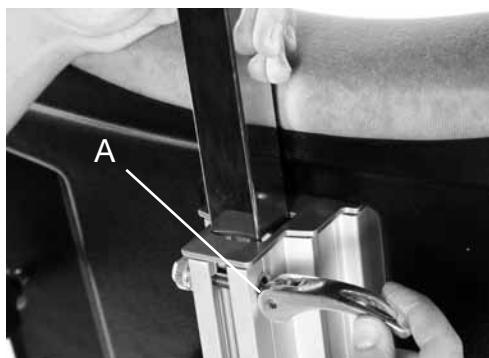
**Always use caution when making this adjustment, as fingers could become trapped in the receiving tube while positioning.**

## 8.13 Head Support Adjustment - Supine

The head support can be adjusted in depth, height and angle. To height adjust, unlock the lever (a) at the top of the central spine, position to the desired height and then re-lock.

For fine height, depth and angle adjustment loosen the two knobs (b), one on either side of the square tube, position the head support and then re-tighten securely.

In addition to this, the contoured headrest can be adjusted laterally. Loosen the screw on top of the contoured headrest bar (c). Adjust to the position required and retighten screw.



# Product Conversion

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## 9.1 Supine to prone

To convert the Leckey Horizon Stander to the prone version, simply remove the head support and attach the prone tray. Remove the supine pelvic band and attach the prone version. Finally loosen the sandals and turn through 180 degrees and you are ready for prone standing.

## 9.2 Prone to Supine

To convert the Leckey Horizon Stander to the supine version, simply remove the prone tray. Attach the required head support as defined above. Remove the prone pelvic band and attach the supine version. Finally loosen the sandals and turn through 180 degrees and you are ready for supine standing.



# Frequent adjustment for daily use

Parents and carers should be shown how to make frequent adjustments and made aware of the safety checks in section 6 by a technically and clinically competent person who has been trained in the use of the product. Leckey recommend that a written record is maintained of all parent and carers who have been trained in the use of this product.

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## 10.1 Transferring the user into and out of the stander

Before transferring the child into the stander carry out the daily product inspection as outlined in section 12 of this user manual.

We would recommend that users are never transferred straight from seating to standing without preparation and stretching. This is best done in lying position whilst on a mat but can be carried out in a wheelchair or seating system if required.

Before transferring the child into the product lock all the castors, ensuring that they are facing outwards to maximise product stability. Make sure the straps on the flexible laterals supports, the pelvic band and sandals are released and out of the way to facilitate transfer.



**Always secure the pelvic band or flexible hip pads first and then the flexible lateral supports.**

## 10.2 Charging the battery

Before the product is used for the first time it is recommended to charge the battery (a) fully for at least 12 hours. To charge the battery, plug the adaptor into the mains socket, attach the lead to the frame and switch on the mains power. While charging the charger LED will remain orange and will turn to green when fully charged. When charged switch off mains power, remove the adaptor plug when and disconnect the lead from the frame. The battery charge should be topped up each day for approximately one hour.



## 10.3 Setting the Angle

If the battery is low in power an audible bleep will sound and 'battery low' will be indicated on the handset and control box (b), indicating that it needs to be charged. Please note that there is a 'Stop' button (c) on the front of the control box for use in emergencies.

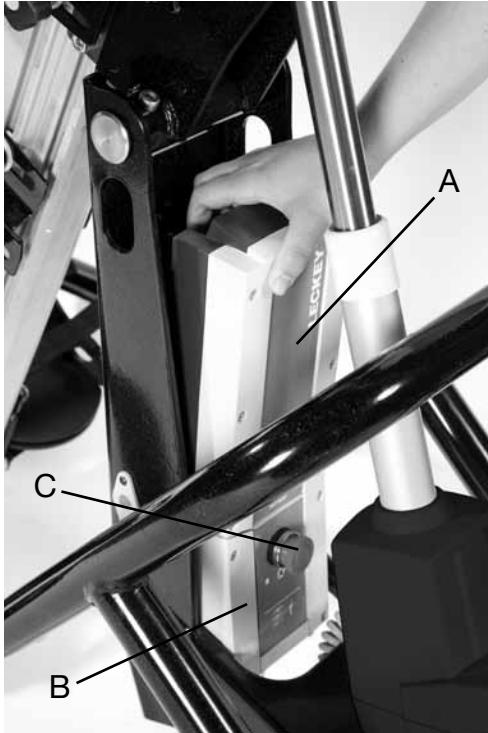
Whether used in supine or prone the frame angle can be easily adjusted with the push button control handset or the control box. There is also an angle adjustment sticker on the frame for guidance.



**Ensure that the product and user are away from surrounding furnishings to prevent possible collisions when adjusting the angle.**



**Do not put your hands or fingers behind the knee supports while adjusting the angle of the product as they could become trapped.**



## 10.4 Flexible Lateral Supports

The flexible lateral supports are secured around the user by clipping the plastic buckle into its receiver. The safety strap (a) can then be tensioned if required.



**Check the laterals are secure before placing the user in the product. As if they are loose the user may be at risk of slipping into a position they cannot not recover from and could restrict their breathing.**



## 10.5 Flexible Hip Pads

The flexible hip pads are secured around the user by clipping the plastic buckle into its receiver. The safety strap (b) can then be tensioned if required.



**Check the hip pads are secure before placing the user in the product. As if they are loose the user may be at risk of slipping out of the product and could cause them serious injury.**



## 10.6 The Front Knee Supports

The knee brackets come as standard with knee supports; these should always be used when the user is in supine but can also be used for prone standing for additional support and security. To fasten the pad insert the plastic clip into the buckle on the side of the main knee support. Then grab the straps ends and pull firmly away from the user, which will secure the pad around the users leg. To remove the pad simply squeeze the tabs on the top and bottom of the plastic clip and the pad will pop off (c).



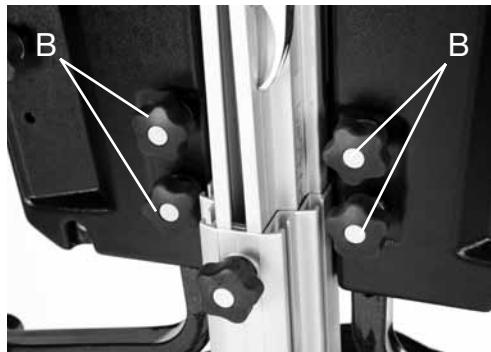
**Always check with your therapist as to the correct tensioning of the straps for your child as the kneecap is a sensitive area and too much force could cause injury.**



## 10.7 Activity Tray Adjustment – Supine

The Tray is attached to and removed from the frame by the metal brackets located below the chest pad. To attach the tray slide the metal bars into the receiving tubes to the required depth and secure by tightening the knobs (a) on either side. There are limit poppers in the end of the tray tubes to show the maximum depth adjustment allowed. These may need to be depressed to remove the tray.

To adjust the height loosen the four knobs (b), set the tray to the required position and then retighten the knobs securely.

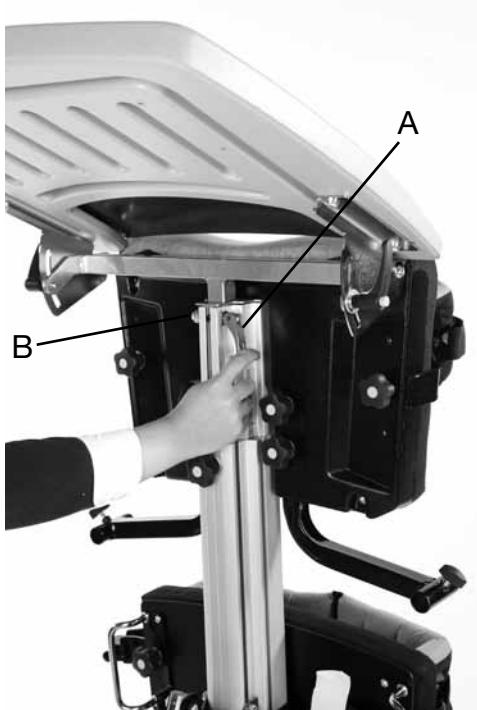


## 10.8 Activity Tray Adjustment – Prone

The tray angle can be adjusted by loosening the plastic handle (c) on either side of the tray, set the tray to the required angle and tighten the plastic handles again securely.

To lock the tray and set its height push the locking lever (a) down until it touches the metal spine. After use this may need to be fine tuned to ensure secure locking. To do this lift up the lever and turn the nut (b) while holding the lever in a fixed position. Push the lever back down to check if it locks the tube securely. Repeat the process as necessary.

The tray angle can be adjusted by loosening the ratchet handle on either side of the tray, set the tray to the required angle and tighten the plastic handles again securely.



## 10.9 Sandals



**Always use caution when making this adjustment, as fingers could become trapped in the slot while positioning.**



**Always use caution when inserting the tray to make sure the child's hands or arms do not become trapped.**



**Do not place hot objects on the tray, not greater than 40 degrees Celsius.**



**Please note that the tray is for the use of the user only. Do not lean or place heavy objects on the tray, not greater than 8kgs (17.6lbs).**



**Never use the tray to steer or push the stander.**

To position the user's feet in the sandals secure the Velcro straps provided so the foot is held in place. The straps should be placed over the bridge of the foot and over the toes.



**If the child is wearing sandals check the straps regular to make sure the webbing does not irritate the skin.**



# 11 Cleaning & Care Information

## How to Maintain

1. It is advisable to charge the battery for at least one hour everyday. However if the powered actuator is not operating and you have checked that the handset is connected correctly you should stop using the product immediately and contact your local dealer.
2. At least once a week, check that all fixings and fastenings including the castors are in good condition.
3. The Leckey Horizon Stander is manufactured from nylon coated metal, ABS plastic and plywood. When cleaning the frame we would recommend that you use warm water and a non-abrasive detergent.
4. When any parts of or accessories are not in use, we would advise that you store them together in a safe place for future use.

5. If you are in any doubt as to the safe use of your Leckey Horizon Stander please cease from using the product and contact your local dealer as soon as possible.

## Upholstery and fabrics

1. Clean and care for your fabric on a regular basis and it will maintain its condition and appearance.
2. Simply vacuum to remove dust particles and wipe with a damp cloth for general cleaning.
3. Microfibre cloths are extremely effective without soap, which is helpful as soap can clog your fabric.
4. Remove spillages promptly with an absorbent dry cloth such as above.
5. Take care not to cause abrasive damage.

6. For heavier soiling use a mild proprietary cleaner and warm water ensuring that cleaning products are fully removed.
7. Body fluids should be removed promptly with cold water and then cleaned as above.
8. Water and oil based stains may be removed by using most water based household proprietary spray cleaning agents, following instructions carefully.
9. For extreme soiling and infection control, use a 5% sodium hypochlorite (bleach) solution, using clean warm water to ensure excess products is removed.
10. Removable parts can be machine washed at 40° – Line drying is recommended.
11. Gentle Low Heat tumble dry is required.

## Metal and plastic and wooden components

1. Soap and water or antibacterial spray can be used for daily cleaning.
2. For deep cleaning a low pressure steam cleaner can be used.
3. Do not use solvents to clean plastic wooden or metal components.
4. Make sure the product is dry before use.
5. Check all wooden components regularly to ensure there are no cracks or splinters.

## 12 Daily Inspection

### Daily Product Inspection (Therapists, parents & carers)

We recommend that daily visual checks of the equipment are carried out by therapists, carers or parents to ensure the product is safe for use. The recommended daily checks are detailed below.

1. Ensure all adjustment knobs and bolts are in place and secure.
2. Check all upholstery for signs of wear and tear.
3. Check all castors are moving freely and lock securely.
4. Check all Velcro strips and brush fluff to ensure straps secure firmly.

If in any doubt to the continued safe use of your Leckey product or if any parts should fail, please cease using the product and contact our customer services department or your local dealer as soon as possible.

## 13 Re-issuing Leckey Products

Most Leckey products are assessed and ordered to meet the needs of an individual user. Before reissuing a product we recommend that the therapist prescribing the product has carried out an equipment compatibility check for the new user and has ensured that the product being re-issued contains no modifications or special attachments.

A detailed technical inspection should be carried on the product prior to re-issuing.

This should be carried out by a technically competent person who has been trained in the use and inspection of the product. Please refer to section 12 for the required checks to be carried out.

Ensure the product has been cleaned thoroughly in accordance with section 11 of this manual.

Ensure a copy of the user manual is supplied with the product. A copy can be downloaded from our website [www.leckey.com](http://www.leckey.com).

Leckey recommend that a written record is maintained of all product inspections carried out during the reissue of the product.

If in any doubt to the continued safe use of your Leckey product or if any parts should fail, please cease using the product and contact our customer service department or your local dealer as soon as possible.

# 14 Technical Data

## Product and accessory codes

For product sizes insert size 1, 2 or 3 in place of #.

For fabric colour options insert: GB, BB, PB or GRB in place of XXX.

Colour key:

GB = Green / Black (Available size 1 and 2 only)

BB = Blue / Black (Available size 1, 2 and 3)

PB = Pink / Black (Available size 1 and 2 only)

GRB = Grey / Black (Available size 3 only)

### Horizon Prone Stander

The Horizon Prone Stander comes complete with tray, knee supports, laterals, basic footplate and your choice of pelvic band and sandals as specified at time of order. LHZ/#/156-XXX

### Horizon Supine Stander

The Horizon Supine Stander comes as per the Horizon Prone Stander but with the addition of a head support and supine pelvic band. LHZ/#/157-XXX

### Accessories

Head Lateral Support (Size 1 fits Size 3)	LHZ/#/117-XXX
Hip Laterals	LHZ/#/164-XXX
Chest Laterals	LHZ/#/168-XXX
Flip Away Hip Laterals (Size 3 Only)	LHZ/3/153-XXX
Flip Away Chest Laterals (Size 3 Only)	LHZ/3/154-XXX
Sandals	LHZ/#/100
Supine Tray (Size 2 fits Size 3)	LHZ/#/143
Prone Tray (Size 2 fits Size 3)	LHZ/#/158
Padded Tray Insert (Size 2 fits Size 3)	CAS/#/109
Wooden Tray Supine (Size 3 Only)	LHZ/3/143
Grab Rail (Size 2 fits Size 3)	LHZ/#/192
Grab Posts (Size 2 fits Size 3)	LHZ/#/193
Hip Plate Assembly	LHZ/#/172-XXX

Backrest Assembly (Size 2 fits Size 3)	LHZ/#/171-XXX
Headsupport Assembly (Size 2 fits Size 3)	LHZ/#/169-XXX
Flip-Up Footplate Assembly	LHZ/#/161
3D Footplate Assembly (One size fits all)	LHZ/#/160
Contoured Headsupport (One size fits all)	LHZ/1/180
Supine Belt	LHZ/#/181-XXX
Prone Belt	LHZ/#/182-XXX
Standard Knee Assembly (Size 2 fits Size 3)	LHZ/#/167-XXX
Medium Extended Knee Assembly (Size 2 fits Size 3)	LHZ/#/183-XXX
Long Extended Knee Assembly (Size 2 fits Size 3)	LHZ/#/184-XXX
Medium Extended Knees - Brackets Only (Size 2 fits Size 3)	LHZ/#/185
Long Extended Knees - Brackets Only (Size 2 fits Size 3)	LHZ/#/186
Headsupport Assembly - Extended 4" (Size 2 fits Size 3)	LHZ/#/187-XXX
Conversion Kit to Supine	LHZ/#/190-XXX
Conversion Kit to Prone	LHZ/#/191-XXX

# 14 Technical data

	Size 1		2		3	
<b>Age (approx)</b>						
min	4		9		14	
max	10		18		Adult	
	Size 1	2	3			
	mm	inches	mm	inches	mm	inches
<b>Length</b>	1135	44.7	1280	50.4	1280	50.4
<b>Width (without tray)</b>	580	22.8	640	25.2	640	25.2
<b>Height in Horizontal Position</b>	780	30.7	805	31.7	805	31.7
<b>Weight of Product</b>	44kg	97lbs	50kg	110.6lbs	59kg	130lbs
<b>Max User Weight</b>	50kg	110Lbs	80kg	176Lbs	100kg	220lbs
<b>User Standing Height</b>						
min	1000	39.4	1400	55.1	1550	61
max	1400	55.1	1800	70.9	1800	70.9
<b>Shoulder Height (footplate to top of pad)</b>						
min	820	32.3	1000	39.4	1000	39.4
max	1150	45.3	1450	57	1450	57
<b>Hip Pad Height (footplate to top of pad)</b>						
min	450	17.7	750	29.5	750	29.5
max	750	29.5	950	37.4	1150	45.3
<b>Hip Pad Width</b>						
min	175	6.9	210	8.3	310	12.2
max	270	10.6	390	15.3	470	18.5
<b>Knee Height (footplate to middle of pad)</b>						
min	250	9.8	400	15.7	400	15.7
max	450	17.7	550	21.6	650	25.6
<b>Width Between Chest Laterals</b>						
min	200	7.9	240	9.4	340	13.4
max	300	11.8	380	14.9	460	18.1
<b>Footplate Angle Adjustment</b>	+/-	10°	10°	10°	10°	10°
<b>Tray Sizes</b>	420 x 440	16.5 x 17.3	520 x 590	20.5 x 23.2	520 x 590	20.5 x 23.2
<b>Tray Angle Adjustment Prone Version</b>	0° to 40°	0° to 40°	0° to 40°	0° to 40°	0° to 40°	0° to 40°
<b>Tray Angle Adjustment Supine Version</b>	20°/30°	20°/30°	20°/30°	20°/30°	20°/30°	20°/30°
<b>Frame Clearance (bottom of ski to ground)</b>	155	6.1	180	7	180	7

# 15 Customer – James Leckey

## Specifications for LINAK

### Products supplied

#### LINAK Actuator

343200-0020004X

Rated IP54

Duty Cycle: 2/18 – 2 minutes continuous use followed by 18 min not in use.

Ambient temperature +5° to +40° C

Push Max 10,000N

Pull Max 6000N

Self Lock at 10,000N Push, 6000N Pull

Typical speed with full load 5mm/sec

Max amps at load of 6000N is 7 amps

Noise level below 50 dB (A)

Power input voltage 24v +- 10%

#### LINAK Control Box

CBJC0033-01

Rated IP: IP54

Duty Cycle Max 10% or 6 minutes per hour followed by 18 min not in use.

Ambient temperature +5° to +40° C

Rated Capacity 2.9 Ah 24v

Lead acid gel filled battery

#### LINAK Handset

HD8X052-00

Rated IP54

Control current 100mA per channel (Max)

Ambient temperature +5° to +40° C

#### LINAK Battery Charger - CH01

Mains 100-240 VAC/50-60 Hz switch mode power supply

Charging voltage 27.6 VDA +- 2%

Charging current Max 500mA

Green LED for power on

Yellow LED for charging funcion

Yellow LED turns into green when batteries are fully charged.

Linak products may be stored in non-heated storage facilities with humidity between 0 and 100%, none condensing.

None condensing means that one should not take a product an ice cold warehouse into a room with a temperature of 20deg C; if this is done then moisture will appear on the products.

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